

W80c4.CJC-66010

SUMMARY - RETROFIT AND PRODUCTION - Redesign, Test, Retro-  
fit Two Units; Acceptance Test Two Units; Environmental  
Test One Unit; Produce 10 Units

|                                  | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|----------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u>    |              |                     |                       |
| Salaried                         | 31,268       | 5.69                | 178,052               |
| Hourly                           | 69,684       | 3.32                | 231,109               |
| Total Labor                      |              |                     | \$ 409,161            |
| R&D Overhead @ 135%              |              |                     | 552,367               |
| Materials                        |              |                     | \$437,974             |
| Material Burden @ 14.9%          |              |                     | 65,258                |
| Total Materials Including Burden |              |                     | <u>503,232</u>        |
| Subtotal                         |              |                     | \$1,464,760           |
| Gen. & Adm. Expense @ 7.8%       |              |                     | <u>114,251</u>        |
| Total Estimated Cost             |              |                     | \$1,579,012           |
|                                  |              |                     | 1070 157,901          |
|                                  |              |                     | 1,736,913             |

25 YEAR RE-REVIEW

W80C4.3CJC-66010

Production Only

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 23,532       | 5.64                | 132,700               |
| Hourly                        | 62,402       | 3.33                | 207,588               |
| Total Labor                   |              |                     | \$ 340,288            |
| R&D Overhead @ 135%           |              |                     | 459,389               |
| Materials                     |              |                     | \$342,426             |
| Material Burden @ 14.9%       |              |                     | 51,021                |
| Total Materials Incl. Burden  |              |                     | <u>393,447</u>        |
| Subtotal                      |              |                     | \$1,193,124           |
| Gen. & Adm. At 7.8%           |              |                     | <u>93,064</u>         |
| Total Estimated Cost          |              |                     | \$1,286,187           |
|                               |              |                     | 128618                |
|                               |              |                     | <u>1,414,805</u>      |

1090

W80C4-ACJC-66010SUMMARY - Develop, Test, and Produce 250 Flip Chip Amplifiers and  
1100 for 10 Production Units

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 8,037        | 5.84                | 46,936                |
| Hourly                        | 22,524       | 2.93                | 65,995                |
| Total Labor                   |              |                     | \$112,931             |
| R&D Overhead @ 135%           |              |                     | 152,457               |
| Materials                     |              |                     | \$129,900             |
| Material Burden @ 14.9%       |              |                     | 19,355                |
| Total Materials Incl. Burden  |              |                     | <u>149,255</u>        |
| Subtotal                      |              |                     | \$414,643             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>32,342</u>         |
| Total Estimated Cost          |              |                     | \$446,985             |

W80C4-A-1CJC-66010

## Design, Test and Set Up (One Time Charge)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 1,132        | 5.84                | 6,611                 |
| Hourly                        | 1,924        | 2.93                | 5,637                 |
| Total Labor                   |              |                     | \$12,248              |
| R&D Overhead @ 135%           |              |                     | 16,534                |
| Materials                     |              |                     | \$18,300              |
| Material Burden @ 14.9%       |              |                     | 2,727                 |
| Total Materials Incl. Burden  |              |                     | <u>21,027</u>         |
| Subtotal                      |              |                     | \$49,809              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>3,885</u>          |
| Total Estimated Cost          |              |                     | \$53,694              |

W80C4-A-2.0CJC-66010Manufacture 1,350 Flip Chip Amplifiers (10 Production and 2 Retrofit) *What?*

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 6,905        | 5.84                | 40,325                |
| Hourly                        | 20,600       | 2.93                | 60,358                |
| Total Labor                   |              |                     | \$100,683             |
| R&D Overhead @ 135%           |              |                     | 135,922               |
| Materials                     |              |                     | \$111,600             |
| Materials Burden @ 14.9%      |              |                     | 16,628                |
| Total Materials Incl. Burden  |              |                     | <u>128,228</u>        |
| Subtotal                      |              |                     | \$364,833             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>28,457</u>         |
| Total Estimated Cost          |              |                     | \$393,290             |

W80C4-A-2.1CJC-66010

Manufacture 1,100 Flip Chip Amplifiers (10 Production Units)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 6,102        | 5.84                | 35,636                |
| Hourly                        | 18,320       | 2.93                | 53,678                |
| Total Labor                   |              |                     | \$ 89,314             |
| R&D Overhead @ 135%           |              |                     | 120,574               |
| Materials                     |              |                     | \$88,484              |
| Materials Burden @ 14.9%      |              |                     | 13,184                |
| Total Materials Incl. Burden  |              |                     | <u>101,668</u>        |
| Subtotal                      |              |                     | \$311,556             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>24,301</u>         |
| Total Estimated Cost          |              |                     | \$335,857             |

*How does this  
tie in w/*

W80C4-BCJC-66010

Retrofit Two Units (1-B, 1-C, 1-D, 1-E, 1-F, 1-G, 1-H, 1-I, 1-J, 1-K)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 5,801        | 5.87                | 34,052                |
| Hourly                        | 3,078        | 3.64                | 11,204                |
| Total Labor                   |              |                     | \$ 45,256             |
| R&D Overhead @ 135%           |              |                     | 61,096                |
| Materials                     |              |                     | \$54,132              |
| Materials Burden @ 14.9%      |              |                     | 8,066                 |
| Total Materials Incl. Burden  |              |                     | <u>62,198</u>         |
| Subtotal                      |              |                     | \$168,550             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>13,147</u>         |
| Total Estimated Cost          |              |                     | \$181,697             |

W80C4-CCJC-66010

Fabrication, Assembly, Electrical Test, Optical &amp; Mechanical Assembly

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 9,282        | 5.37                | 49,844                |
| Hourly                        | 37,566       | 3.47                | 130,354               |
| Total Labor                   |              |                     | \$180,198             |
| R&D Overhead @ 135%           |              |                     | 243,267               |
| Materials                     |              |                     | \$252,182             |
| Materials Burden @ 14.9%      |              |                     | 37,575                |
| Total Materials Incl. Burden  |              |                     | <u>289,757</u>        |
| Subtotal                      |              |                     | \$713,222             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>55,631</u>         |
| Total Estimated Cost          |              |                     | \$768,853             |



W80C4-DCJC-66010

## Quality Control and Inspection

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 510          | 5.20                | 2,652                 |
| Hourly                        | 3,054        | 3.67                | 11,208                |
| Total Labor                   |              |                     | \$13,860              |
| R&D Overhead @ 135%           |              |                     | <u>18,711</u>         |
| Subtotal                      |              |                     | \$32,571              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>2,540</u>          |
| Total Estimated Cost          |              |                     | \$35,111              |

W80C4-ECJC-66010

## Program Management

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 5,300        | 5.87                | 31,111                |
| Hourly                        | 1,008        | 3.64                | 3,669                 |
| Total Labor                   |              |                     | \$34,780              |
| R&D Overhead @ 135%           |              |                     | <u>46,953</u>         |
| Subtotal                      |              |                     | \$81,733              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>6,375</u>          |
| Total Estimated Cost          |              |                     | \$88,108              |

Boy, is this even loaded!!

W80C4-FCJC-66010

## Special Test Equipment and Tooling

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 553          | 5.37                | 2,862                 |
| Hourly                        | 1,488        | 3.47                | 5,163                 |
| Total Labor                   |              |                     | \$ 8,025              |
| R&D Overhead @ 135%           |              |                     | 10,834                |
| Materials                     |              |                     | \$1,760               |
| Material Burden @ 14.9%       |              |                     | 262                   |
| Total Materials Incl. Burden  |              |                     | <u>2,022</u>          |
| Subtotal                      |              |                     | \$20,881              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>1,629</u>          |
| Total Estimated Cost          |              |                     | \$22,510              |

W80C4-GCJC-66010

## Upgrade Drawings and Manuals

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 1,805        | 5.87                | 10,595                |
| Hourly                        | 966          | 3.64                | 3,516                 |
| Total Labor                   |              |                     | \$14,111              |
| R&D Overhead @ 135%           |              |                     | <u>19,050</u>         |
| Subtotal                      |              |                     | \$33,161              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>2,587</u>          |
| Total Estimated Cost          |              |                     | \$35,748              |

S-225.CJC-66010

SUMMARY - Redesign, Test, Retrofit Two Units; Acceptance Test  
Two Units; Environmental Test One Unit; Produce  
Ten Units

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 28,635       | 5.63                | 161,076               |
| Hourly                        | 41,777       | 2.88                | 137,791               |
| Total Labor                   |              |                     | \$ 298,867            |
| R&D Overhead @ 135%           |              |                     | 403,470               |
| Materials                     |              |                     | \$435,602             |
| Material Burden @ 14.9%       |              |                     | 64,905                |
| Total Materials ;Incl. Burden |              |                     | <u>500,507</u>        |
| Subtotal                      |              |                     | \$1,202,844           |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>93,822</u>         |
| Total Estimated Cost          |              |                     | \$1,296,666           |
|                               |              | 10%                 | 129,666               |
|                               |              |                     | <u>1,426,332</u>      |

S-225.CJC-66010

Production Only - 10 Production Units (5-A-2.1, 5-C, 5-D, 5-E, 5-F,  
5-G, 5-H, 5-I, 5-J, 5-K)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 23,673       | 5.58                | 132,023               |
| Hourly                        | 34,658       | 2.83                | 115,477               |
| Total Labor                   |              |                     | \$ 247,500            |
| R&D Overhead @ 135%           |              |                     | 334,125               |
| Materials                     |              |                     | \$400,100             |
| Material Burden @ 14.9%       |              |                     | 59,615                |
| Total Materials Incl. Burden  |              |                     | <u>459,715</u>        |
| Subtotal                      |              |                     | \$1,041,340           |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>81,225</u>         |
| Total Estimated Cost          |              |                     | \$1,122,565           |
|                               |              |                     | 10% <u>112,256</u>    |
|                               |              |                     | <u>1,234,821</u>      |

S-225-ACJC-66010

Develop, Test, and Produce 135 Flip Chip Amplifiers and 480 for  
10 Production Units

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 7,332        | 5.84                | 42,819                |
| Hourly                        | 16,069       | 2.93                | 47,082                |
| Total Labor                   |              |                     | \$ 89,901             |
| R&D Overhead @ 135%           |              |                     | 121,366               |
| Materials                     |              |                     | \$91,202              |
| Material Burden @ 14.9%       |              |                     | 13,590                |
| Total Materials Incl. Burden  |              |                     | <u>104,792</u>        |
| Subtotal                      |              |                     | \$316,059             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>24,653</u>         |
| Total Estimated Cost          |              |                     | \$340,712             |

S-225-A-1CJC-66010

## Design, Test, and Set-Up (One Time Charge)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 1,132        | 5.84                | 6,611                 |
| Hourly                        | 1,924        | 2.93                | 5,637                 |
| Total Labor                   |              |                     | \$12,248              |
| R&D Overhead @ 135%           |              |                     | 16,534                |
| Materials                     |              |                     | \$18,300              |
| Material Burden @ 14.9%       |              |                     | 2,727                 |
| Total Materials Incl. Burden  |              |                     | <u>21,027</u>         |
| Subtotal                      |              |                     | \$49,809              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>3,885</u>          |
| Total Estimated Cost          |              |                     | \$53,694              |



S-225-A-2.0CjC-66010

Manufacture 615 Flip Chip Amplifiers (10 Production and 2 retrofit)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 6,200        | 5.84                | 36,208                |
| Hourly                        | 14,145       | 2.93                | 41,445                |
| Total Labor                   |              |                     | \$ 77,653             |
| R&D Overhead @ 135%           |              |                     | 104,832               |
| Materials                     |              |                     | \$72,902              |
| Material Burden @ 14.9%       |              |                     | 10,862                |
| Total Materials Incl. Burden  |              |                     | <u>83,764</u>         |
| Subtotal                      |              |                     | \$266,249             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>20,767</u>         |
| Total Estimated Cost          |              |                     | \$287,016             |

S-225-A-2.1CJC-66010

## Manufacture 480 Flip Chip Amplifiers - 10 Production Units

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 4,860        | 5.84                | 28,382                |
| Hourly                        | 11,000       | 2.93                | 32,230                |
| Total Labor                   |              |                     | \$60,612              |
| R&D Overhead @ 135%           |              |                     | 81,826                |
| Materials                     |              |                     | \$56,900              |
| Material Burden @ 14.9%       |              |                     | 8,478                 |
| Total Materials Incl. Burden  |              |                     | <u>65,378</u>         |
| Subtotal                      |              |                     | \$207,816             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>16,210</u>         |
| Total Estimated Cost          |              |                     | \$224,026             |

*When does this  
fix in*

S-225-BCJC-66010

Retrofit Two Units (2-B + 2-C + 2-D)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 1,730        | 5.87                | 10,155                |
| Hourly                        | 650          | 3.64                | 2,366                 |
| Total Labor                   |              |                     | \$12,521              |
| R&D Overhead @ 135%           |              |                     | 16,903                |
| Materials                     |              |                     | \$1,200               |
| Material Burden @ 14.9%       |              |                     | 179                   |
| Total Materials Incl. Burden  |              |                     | <u>1,379</u>          |
| Subtotal                      |              |                     | \$30,803              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>2,402</u>          |
| Total Estimated Cost          |              |                     | \$33,205              |

S-225-CCJC-66010

## Fabrication - Mechanical - Optical - Optical Coating

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 1,533        | 5.37                | 8,232                 |
| Hourly                        | 9,244        | 3.47                | 32,076                |
| Total Labor                   |              |                     | \$ 40,308             |
| R&D Overhead @ 135%           |              |                     | 54,416                |
| Materials                     |              |                     | \$52,850              |
| Material Burden @ 14.9%       |              |                     | 7,874                 |
| Total Materials Incl. Burden  |              |                     | <u>60,724</u>         |
| Subtotal                      |              |                     | \$155,448             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>12,125</u>         |
| Total Estimated Cost          |              |                     | \$167,573             |

S-225-DCJC-66010

Thermal

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 168          | 5.87                | 986                   |
| Hourly                        | 16           | 3.64                | 58                    |
| Total Labor                   |              |                     | \$1,044               |
| R&D Overhead @ 135%           |              |                     | <u>1,409</u>          |
| Subtotal                      |              |                     | \$2,453               |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>191</u>            |
| Total Estimated Cost          |              |                     | \$2,644               |

S-225-ECJC-66010

## Electrical Fabrication and Assembly

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 7,352        | 5.37                | 39,480                |
| Hourly                        | 7,760        | 3.47                | 26,927                |
| total Labor                   |              |                     | \$ 66,407             |
| R&D Overhead @ 135%           |              |                     | 89,649                |
| Materials                     |              |                     | \$48,600              |
| Material Burden @ 14.9%       |              |                     | 7,241                 |
| Total Materials Incl. Burden  |              |                     | <u>55,841</u>         |
| Subtotal                      |              |                     | \$211,897             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>16,528</u>         |
| Total Estimated Cost          |              |                     | \$228,425             |

S-225-FCJC-66010

## Mechanical and Optical Alignment and Check Out

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 1,880        | 5.87                | 11,036                |
| Hourly                        | 1,290        | 3.64                | 4,696                 |
| Total Labor                   |              |                     | \$15,732              |
| R&D Overhead @ 135%           |              |                     | <u>21,238</u>         |
| Subtotal                      |              |                     | \$36,970              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>2,884</u>          |
| Total Estimated Cost          |              |                     | \$39,854              |

S-225-GCJC-66010

## System Alignment and Test

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 2,140        | 5.87                | 12,567                |
| Hourly                        | 2,140        | 3.64                | 7,747                 |
| Total Labor                   |              |                     | \$20,314              |
| R&D Overhead @ 135%           |              |                     | <u>27,424</u>         |
| Subtotal                      |              |                     | \$47,738              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>3,724</u>          |
| Total Estimated Cost          |              |                     | \$51,462              |



S-225-HCJC-66010

## Quality Control and Inspection

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 440          | 5.20                | 229                   |
| Hourly                        | 2,200        | 3.67                | 8,074                 |
| Total Labor                   |              |                     | \$ 8,303              |
| R&D Overhead @ 135%           |              |                     | <u>11,209</u>         |
| Subtotal                      |              |                     | \$19,512              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>1,522</u>          |
| Total Estimated Cost          |              |                     | \$21,034              |

S-225-ICJC-66010

Detector Arrays - Power Supplies and Coolers - Pitch Encoder -  
Servo Amplifiers - Toger and Tack

|                              |           |               |
|------------------------------|-----------|---------------|
| Materials                    | \$219,750 |               |
| Material Burden @ 14.9%      | 32,743    |               |
| Total Materials Incl. Burden |           | \$252,493     |
| Gen. & Adm. Expense @ 7.8%   |           | <u>19,694</u> |
| Total Estimated Cost         |           | \$272,187     |

S-225-JCJC-66010

## Program Management

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 5,300        | 5.87                | 31,111                |
| Hourly                        | 1,008        | 3.64                | 3,669                 |
| Total Labor                   |              |                     | \$34,780              |
| R&D Overhead @ 135%           |              |                     | <u>46,953</u>         |
| Subtotal                      |              |                     | \$81,733              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>6,375</u>          |
| Total Estimated Cost          |              |                     | \$88,108              |

S-225-KCJC-66010

10% Spares Excluding Microelectronics and Detectors Which Have  
Spares

|                              |          |              |
|------------------------------|----------|--------------|
| Materials                    | \$22,000 |              |
| Material Burden @ 14.9%      | 3,278    |              |
| Total Materials Incl. Burden |          | \$25,278     |
| Gen. & Adm. Expense @ 7.8%   |          | <u>1,972</u> |
| Total Estimated Cost         |          | \$27,250     |

S-225-LCJC-66010

## Update Drawings and Manuals

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 760          | 5.87                | 4,461                 |
| Hourly                        | 1,400        | 3.64                | 5,096                 |
| Total Labor                   |              |                     | \$ 9,557              |
| R&D overhead @ 135%           |              |                     | <u>12,902</u>         |
| Subtotal                      |              |                     | \$22,459              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>1,752</u>          |
| Total Estimated Cost          |              |                     | \$24,211              |

W80C6.CJC-66010

SUMMARY - Redesign, Test, Retrofit Two Units; Acceptance Test  
Two Units; Environmental Test One Unit; Produce  
Ten Units (Combined with S-22)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 29,392       | 5.69                | 167,096               |
| Hourly                        | 66,279       | 3.34                | 221,133               |
| Total Labor                   |              |                     | \$ 388,229            |
| R&D Overhead @ 135%           |              |                     | 524,109               |
| Materials                     |              |                     | \$421,744             |
| Material Burden @ 14.9%       |              |                     | 62,840                |
| Total Materials Incl. Burden  |              |                     | <u>484,584</u>        |
| Subtotal                      |              |                     | \$1,396,886           |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>108,957</u>        |
| Total Estimated Cost          |              |                     | \$1,505,843           |

10%  
150,584  
 1,656,427

W80C6.CJC-66010

Production Only - Combined with S-22

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 22,357       | 5.63                | 125,838               |
| Hourly                        | 60,311       | 3.34                | 201,461               |
| Total Labor                   |              |                     | \$ 327,299            |
| R&D Overhead @ 135%           |              |                     | 441,854               |
| Materials                     |              |                     | \$323,607             |
| Materials Burden @ 14.9%      |              |                     | 48,217                |
| Total Materials Incl. Burden  |              |                     | <u>371,824</u>        |
| Subtotal                      |              |                     | \$1,140,977           |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>88,996</u>         |
| Total Estimated Cost          |              |                     | \$1,229,973           |
|                               |              |                     | -10% 122,997          |
|                               |              |                     | <u>7,352,970</u>      |

W80C6-ACJC-66010

115

Develop, Test, and Produce 250 Flip Chip Amplifiers Plus 1100 for  
10 Production Units (Combined with S-22)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 6,161        | 5.84                | 35,980                |
| Hourly                        | 19,119       | 2.93                | 56,019                |
| Total Labor                   |              |                     | \$ 91,999             |
| R&D Overhead @ 135%           |              |                     | 124,199               |
| Materials                     |              |                     | \$113,670             |
| Materials Burden @ 14.9%      |              |                     | 16,937                |
| Total Materials Incl. Burden  |              |                     | <u>130,607</u>        |
| Subtotal                      |              |                     | \$346,805             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>27,051</u>         |
| Total Estimated Cost          |              |                     | \$373,856             |



W80C6-A.1CJC-66010

Design, Test, and Set-Up (One Time Charge) (Split 50/50 with S-22)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 566          | 5.84                | 3,305                 |
| Hourly                        | 962          | 2.93                | 2,819                 |
| Total Labor                   |              |                     | \$ 6,124              |
| R&D Overhead @ 135%           |              |                     | 8,267                 |
| Materials                     |              |                     | \$9,150               |
| Materials Burden @ 14.9%      |              |                     | 1,363                 |
| Total Materials Incl. Burden  |              |                     | <u>10,513</u>         |
| Subtotal                      |              |                     | \$24,904              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>1,943</u>          |
| Total Estimated Cost          |              |                     | \$26,847              |

W80C6-A-2.0CJC-66010

Manufacture 1,350 Flip Chip Amplifiers (10 Production Plus  
Two Retrofit Units) (Combined with S-22)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 5,595        | 5.84                | 32,675                |
| Hourly                        | 18,157       | 2.93                | 53,200                |
| Total Labor                   |              |                     | \$85,875              |
| R&D Overhead @ 135%           |              |                     | 115,931               |
| Materials                     |              |                     | \$104,520             |
| Material Burden @ 14.9%       |              |                     | 15,573                |
| Total Materials Incl. Burden  |              |                     | <u>120,093</u>        |
| Subtotal                      |              |                     | \$321,899             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>25,108</u>         |
| Total Estimated Cost          |              |                     | \$347,007             |

W80C6-A-2.1CJC-66010

Manufacture 1,100 Flip Chip Amplifiers (10 Production Units)  
(Combined with S-22)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 4,927        | 5.84                | 28,774                |
| Hourly                        | 16,229       | 2.93                | 47,551                |
| Total Labor                   |              |                     | \$ 76,325             |
| R&D Overhead @ 135%           |              |                     | 103,039               |
| Materials                     |              |                     | \$69,665              |
| Materials Burden @ 14.9%      |              |                     | 10,380                |
| Total Materials Incl. Burden  |              |                     | <u>80,045</u>         |
| Subtotal                      |              |                     | \$259,409             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>20,234</u>         |
| Total Estimated Cost          |              |                     | \$279,643             |

*How does this  
file in?*

W80C6-BCJC-66010

Retrofit Two Units (1-B, 1-C, 1-D, 1-E, 1-F, 1-G, 1-H, 1-I,  
1-J, 1-K)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 5,801        | 5.87                | 34,052                |
| Hourly                        | 3,078        | 3.64                | 11,204                |
| Total Labor                   |              |                     | \$ 45,256             |
| R&D Overhead @ 135%           |              |                     | 61,096                |
| Materials                     |              |                     | \$54,132              |
| Materials Burden @ 14.9%      |              |                     | 8,066                 |
| Total Materials Incl. Burden  |              |                     | <u>62,198</u>         |
| Subtotal                      |              |                     | \$168,550             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>13,147</u>         |
| Total Estimated Cost          |              |                     | \$181,697             |

W80C6-CCJC-66010

Manufacturing Costs (4-C, 4-D, 4-E, 4-F, 4-G) Ten Production Units

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 17,430       | 5.57                | 97,064                |
| Hourly                        | 44,082       | 3.49                | 153,910               |
| Total Labor                   |              |                     | \$250,974             |
| R&D Overhead @ 135%           |              |                     | 338,815               |
| Materials                     |              |                     | \$253,942             |
| Material Burden @ 14.9%       |              |                     | 37,837                |
| Total Materials Incl. Burden  |              |                     | <u>291,779</u>        |
| Subtotal                      |              |                     | \$881,568             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>68,762</u>         |
| Total Estimated Cost          |              |                     | \$950,330             |

S-226.CJC-66010

Redesign, Test, Retrofit, Two Units; Acceptance Test Two Units;  
Environmental Test One Unit; Produce Ten Units (Combined with W80C)

|                              | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool</u> |              |                     |                       |
| Salaried                     | 24,624       | 5.59                | 137,651               |
| Hourly                       | 35,613       | 2.87                | 102,381               |
| Total Labor                  |              |                     | \$240,032             |
| R&D Overhead @ 135%          |              |                     | 324,043               |
| Materials                    |              |                     | \$405,030             |
| Material Burden @ 14.9%      |              |                     | 60,349                |
| Total Materials Incl. Burden |              |                     | <u>465,379</u>        |
| Subtotal                     |              |                     | \$1,029,454           |
| Gen. & Adm. Expense @ 7.8%   |              |                     | <u>80,297</u>         |
| Total Estimated Cost         |              |                     | \$1,109,751           |
|                              | 10%          |                     | <u>110,975</u>        |
|                              |              |                     | <u>1,220,726</u>      |

S-226.CJC-66010

## Production Only

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 12,200       | 5.56                | 122,276               |
| Hourly                        | 33,052       | 2.86                | 94,415                |
| Total Labor                   |              |                     | \$ 216,691            |
| R&D Overhead @ 135%           |              |                     | 292,533               |
| Materials                     |              |                     | \$377,513             |
| Material Burden @ 14.9%       |              |                     | 56,249                |
| Total Materials Incl. Burden  |              |                     | <u>433,762</u>        |
| Subtotal                      |              |                     | \$ 942,986            |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>73,553</u>         |
| Total Estimated Cost          |              |                     | \$1,016,539           |
|                               | 10%          |                     | <u>101,653</u>        |
|                               |              |                     | 1,118,192             |

S-226-ACJC-66010

SUMMARY - Develop, Test, and Produce 135 Flip Chip Amplifiers  
 Plus 480 for 10 Production Units (Combined with W80C)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 3,321        | 5.84                | 19,394                |
| Hourly                        | 9,905        | 2.93                | 29,022                |
| Total Labor                   |              |                     | \$ 48,416             |
| R&D Overhead @ 135%           |              |                     | 65,362                |
| Materials                     |              |                     | \$60,630              |
| Materials Burden @ 14.9%      |              |                     | 9,034                 |
| Total Materials Incl. Burden  |              |                     | <u>69,664</u>         |
| Subtotal                      |              |                     | \$183,442             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>14,308</u>         |
| Total Estimated Cost          |              |                     | \$197,750             |



S-226-A-1CJC-66010

Design, Test, and Set-Up (One Time Charge) (Split 50/50 with W80C)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 566          | 5.84                | 3,305                 |
| Hourly                        | 962          | 2.93                | 2,819                 |
| Total Labor                   |              |                     | \$ 6,124              |
| R&D Overhead @ 135%           |              |                     | 8,267                 |
| Materials                     |              |                     | \$9,150               |
| Material Burden @ 14.9%       |              |                     | 1,363                 |
| Total Material Incl. Burden   |              |                     | <u>10,513</u>         |
| Subtotal                      |              |                     | \$24,904              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>1,943</u>          |
| Total Estimated Cost          |              |                     | \$26,847              |

S-226-A-2.0CJC-66010

Manufacture 615 Flip Chip Amplifiers (10 Production plus 2 Retrofits)

|                                  | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|----------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u>    |              |                     |                       |
| Salaried                         | 2,755        | 5.84                | 16,089                |
| Hourly                           | 8,943        | 2.93                | 26,203                |
| Total Labor                      |              |                     | \$ 42,292             |
| R&D Overhead @ 135%              |              |                     | 57,094                |
| Materials                        |              |                     | \$51,480              |
| Material Burden @ 14.9%          |              |                     | 7,671                 |
| Total Materials Including Burden |              |                     | <u>59,151</u>         |
| Subtotal                         |              |                     | \$158,537             |
| Gen. & Adm. At 7.8%              |              |                     | <u>12,366</u>         |
| Total Estimated Cost             |              |                     | \$170,903             |

S-226-A-2.1CJC-66010

Manufacture 480 Flip Chip Amplifiers (10 Production Units)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 2,427        | 5.84                | 14,174                |
| Hourly                        | 7,994        | 2.93                | 23,422                |
| Total Labor                   |              |                     | \$ 37,596             |
| R&D Overhead @ 135%           |              |                     | 50,755                |
| Materials                     |              |                     | \$34,313              |
| Material Burden @ 14.9%       |              |                     | 5,113                 |
| Total Materials Incl. Burden  |              |                     | <u>39,426</u>         |
| Subtotal                      |              |                     | \$127,777             |
| Gen. & Administrative @ 7.8%  |              |                     | <u>9,967</u>          |
| Total Estimated Cost          |              |                     | \$137,744             |

S-226-BCJC-66010

Retrofit Two Units (2-B + 2-C + 2-D)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 1,730        | 5.87                | 10,155                |
| Hourly                        | 650          | 3.64                | 2,366                 |
| Total Labor                   |              |                     | \$12,521              |
| R&D Overhead @ 135%           |              |                     | 16,903                |
| Materials                     |              |                     | \$1,200               |
| Material Burden @ 14.9%       |              |                     | 179                   |
| Total Materials Incl. Burden  |              |                     | <u>1,379</u>          |
| Subtotal                      |              |                     | \$30,803              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>2,402</u>          |
| Total Estimated Cost          |              |                     | \$33,205              |

S-226-CCJC-66010

Manufacturing Costs (5-C, 5-D, 5-E, 5-F, 5-G, 5-H, 5-I, 5-J, 5-K,  
5-L) Ten Production Units

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 19,573       | 5.52                | 108,102               |
| Hourly                        | 25,058       | 2.83                | 70,993                |
| Total Labor                   |              |                     | \$179,095             |
| R&D Overhead @ 135%           |              |                     | 241,778               |
| Materials                     |              |                     | \$343,200             |
| Material Burden @ 14.9%       |              |                     | 51,137                |
| Total Material Incl. Burden   |              |                     | <u>394,337</u>        |
| Subtotal                      |              |                     | \$815,210             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>63,586</u>         |
| Total Estimated Cost          |              |                     | \$878,796             |

7.

CJC-66010

## SUMMARY - J218 Test Equipment - 4 Units

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 853          | 5.87                | 5,007                 |
| Hourly                        | 1,584        | 3.64                | 5,766                 |
| Total Labor                   |              |                     | \$ 10,773             |
| R&D Overhead @ 135%           |              |                     | 14,543                |
| Materials                     |              | \$62,274            |                       |
| Materials Burden @ 14.9%      |              | 9,279               |                       |
| Total Materials Incl. Burden  |              |                     | <u>71,553</u>         |
| Subtotal                      |              |                     | \$ 96,869             |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>7,556</u>          |
| Total Estimated Cost          |              |                     | \$104,425             |

7-ACJC-66010

## Mobile Test Cart (Fully Instrumented)

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 597          | 5.87                | 3,504                 |
| Hourly                        | 922          | 3.64                | 3,356                 |
| Total Labor                   |              |                     | \$ 6,860              |
| R&D Overhead @ 135%           |              |                     | 9,261                 |
| Materials                     |              |                     | \$39,567              |
| Material Burden @ 14.9%       |              |                     | 5,895                 |
| Total Materials Incl. Burden  |              |                     | <u>45,462</u>         |
| Subtotal                      |              |                     | \$61,583              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>4,803</u>          |
| Total Estimated Cost          |              |                     | \$66,386              |

7-BCJC-66010

## Collimated Test Source

|                               | <u>Hours</u> | <u>Rate</u><br>-\$- | <u>Amount</u><br>-\$- |
|-------------------------------|--------------|---------------------|-----------------------|
| <u>R&amp;D Overhead Pool:</u> |              |                     |                       |
| Salaried                      | 256          | 5.87                | 1,502                 |
| Hourly                        | 662          | 3.64                | 2,410                 |
| Total Labor                   |              |                     | \$ 3,912              |
| R&D Overhead @ 135%           |              |                     | 5,281                 |
| Materials                     |              | \$10,327            |                       |
| Material Burden @ 14.9%       |              | 1,539               |                       |
| Total Materials Incl. Burden  |              |                     | <u>11,866</u>         |
| Subtotal                      |              |                     | \$21,059              |
| Gen. & Adm. Expense @ 7.8%    |              |                     | <u>1,642</u>          |
| Total Estimated Cost          |              |                     | \$22,701              |



7-C

CJC-66010

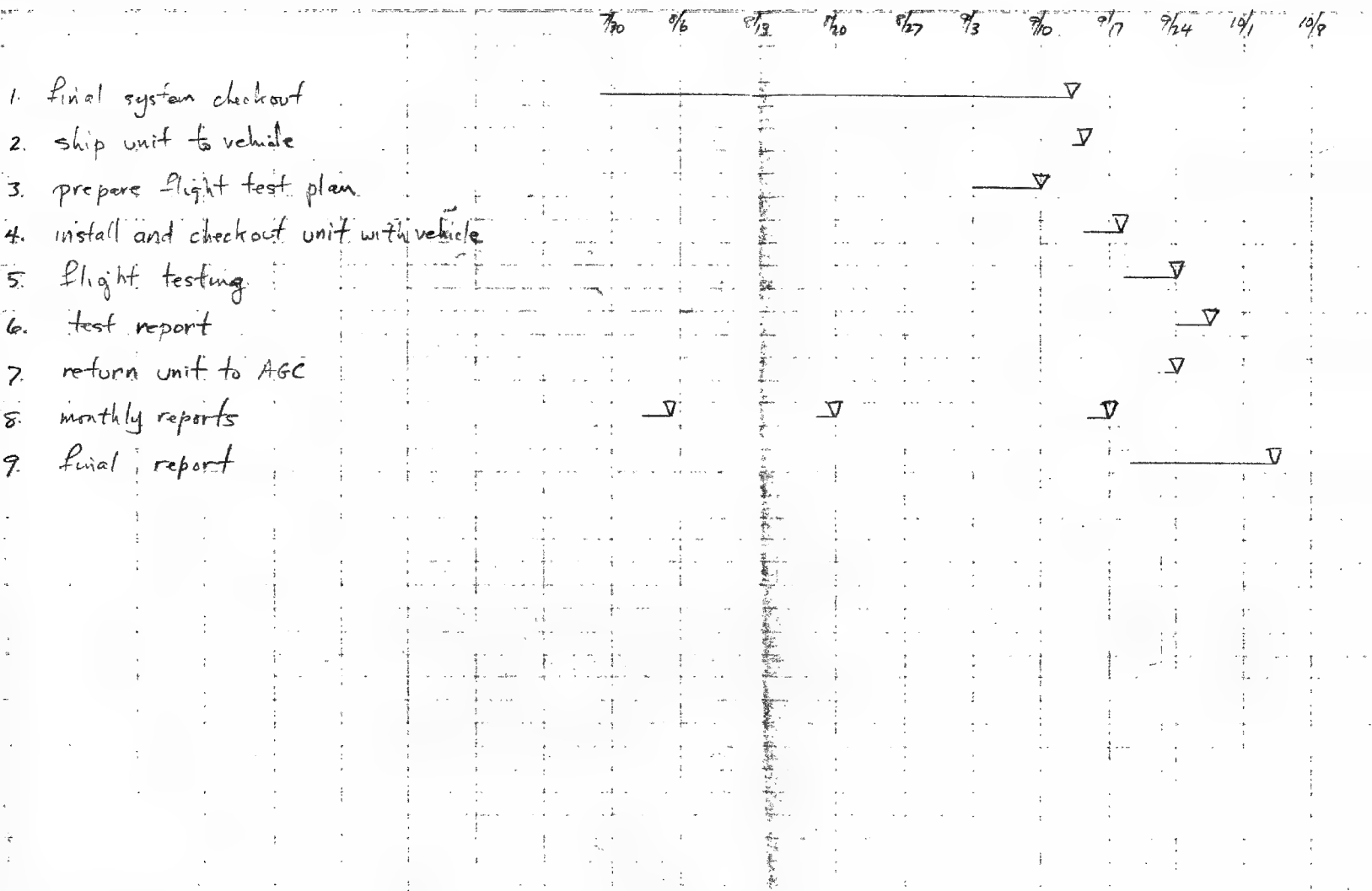
Standard Test Equipment

|                              |          |              |
|------------------------------|----------|--------------|
| Materials                    | \$12,380 |              |
| Material Burden @ 14.9%      | 1,846    |              |
| Total Materials Incl. Burden |          | \$14,226     |
| Gen. & Adm. Expense @ 7.8%   |          | <u>1,110</u> |
| Total Estimated Cost         |          | \$15,336     |

No ??

## Schedule For Completion of Existing Contract.

8/2/66



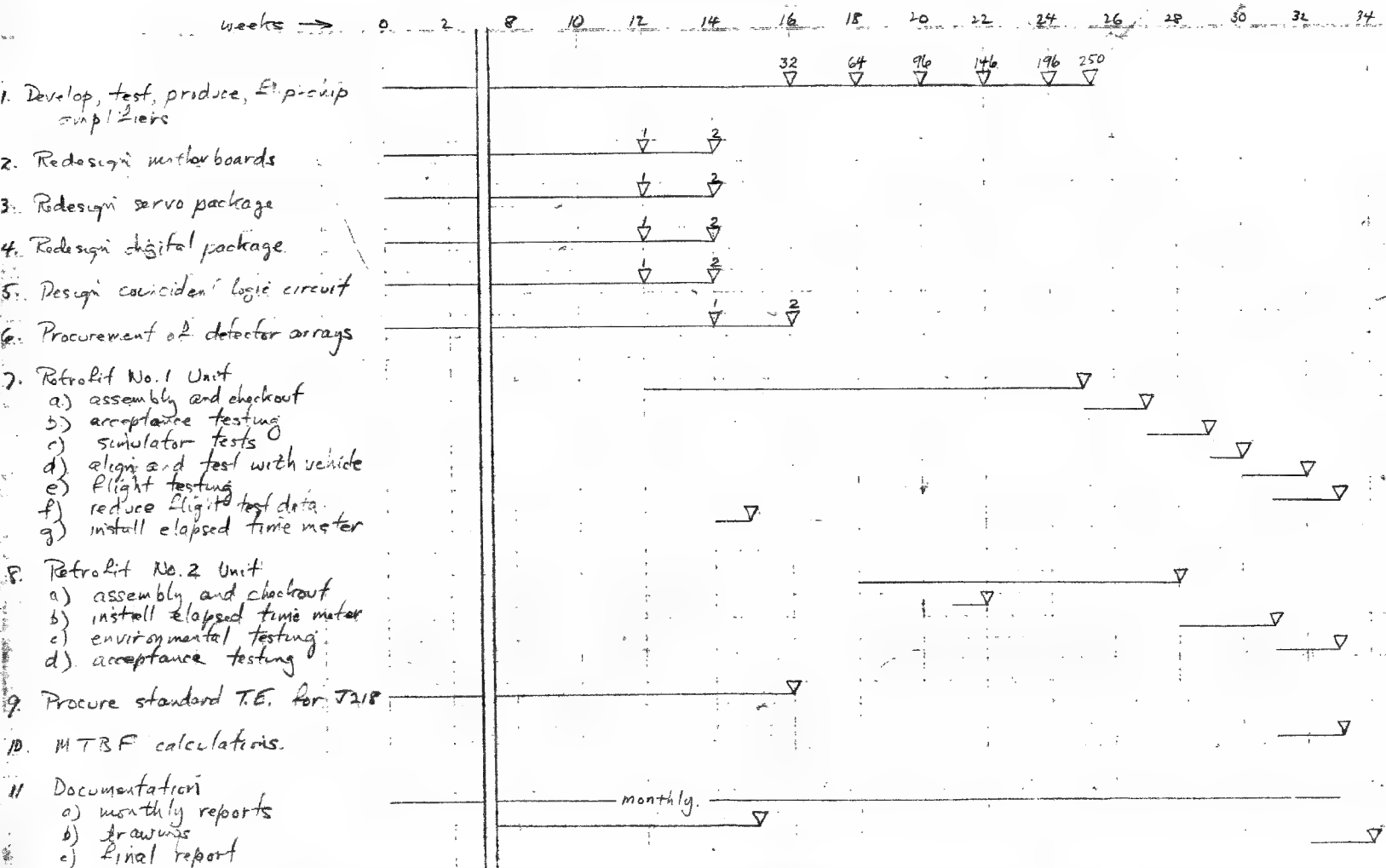
## Schedule breakdown - final system checkout

8/2/66

| Items  | 8/30   | 9/6    | 9/13   | 9/20 | 9/27   | 9/3    | 9/10   | 9/17 | 9/24 |
|--|--------|--------|--------|------|--------|--------|--------|------|------|
| 1. Detector capability - ambient                             | _____▼ |        |        |      |        |        |        |      |      |
| 2. +16 Detector capability - cold and record raw preamp data | _____▼ |        |        |      |        |        |        |      |      |
| 3. Optimize amp. decoupling changes                          | _____▼ |        |        |      |        |        |        |      |      |
| 4. Modify and clean up amp. motherboards                     |        | _____▼ |        |      |        |        |        |      |      |
| 5. Return array 4-7 ftmeca                                   |        |        |        |      | _____▼ |        |        |      |      |
| 6. Design, Lab, test amplifier display panel                 |        | _____▼ |        |      |        |        |        |      |      |
| 7. Adjust servo field coverage + bar spacing                 |        | _____▼ |        |      |        |        |        |      |      |
| 8. Clean up + repair scanner                                 |        |        | _____▼ |      |        |        |        |      |      |
| 9. Check channel count threshold crt.                        |        |        |        |      |        | _____▼ |        |      |      |
| 10. Check temp. sensing circuit                              |        |        |        |      |        | _____▼ |        |      |      |
| 11. Final check Sun sensor                                   |        |        |        |      |        | _____▼ |        |      |      |
| 12A. Check channel noise with test panel                     |        |        |        |      | _____▼ |        |        |      |      |
| 12B. Check J215 with W80                                     |        |        |        |      | _____▼ |        |        |      |      |
| 13. Elapsed time meter (not required)                        |        |        |        |      |        |        |        |      |      |
| System tests   |        |        |        |      |        |        | _____▼ |      |      |

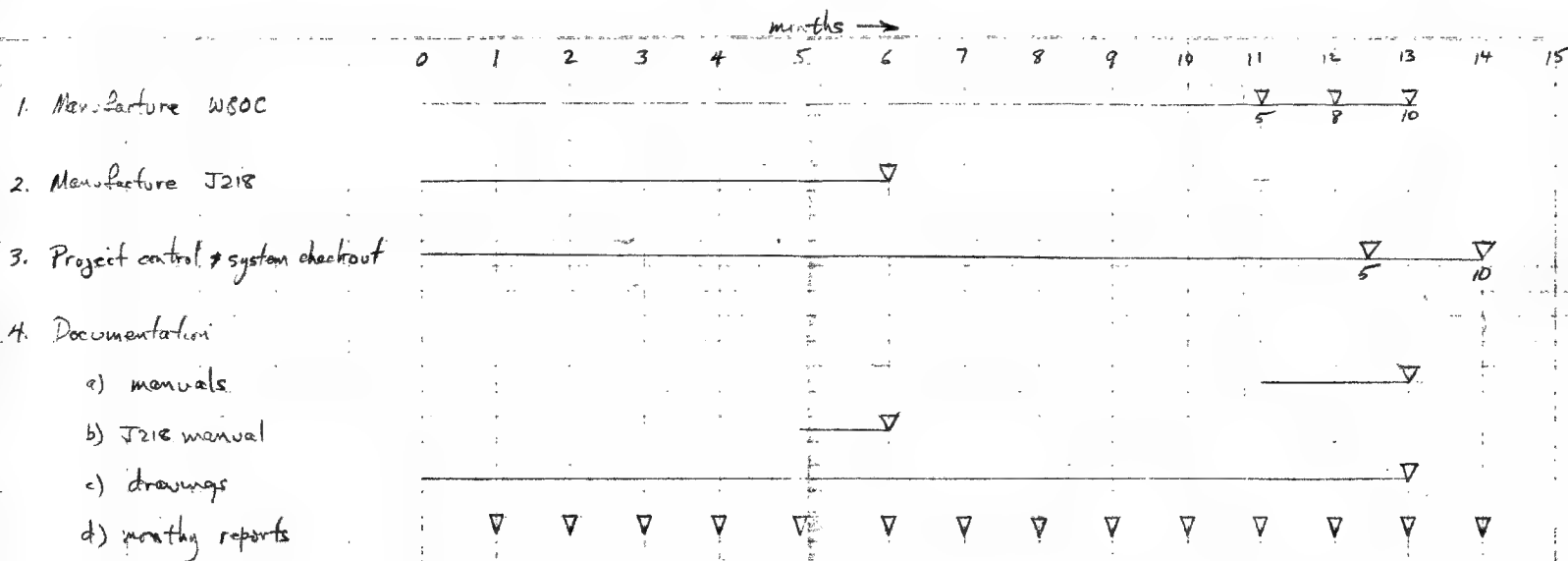
## W80C First &amp; Second Unit Retrofit With Flip Chip Amplifiers.

8/10/66



## Schedule - Production, W80C.

7/21/66



|               |                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Item 3 costs: | Propriet (SH)    | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 |
|               | Clerical (HH)    | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  |
|               | Depl. 3824 (SH)  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|               | Tech (HH)        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|               | Supervision (SH) |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

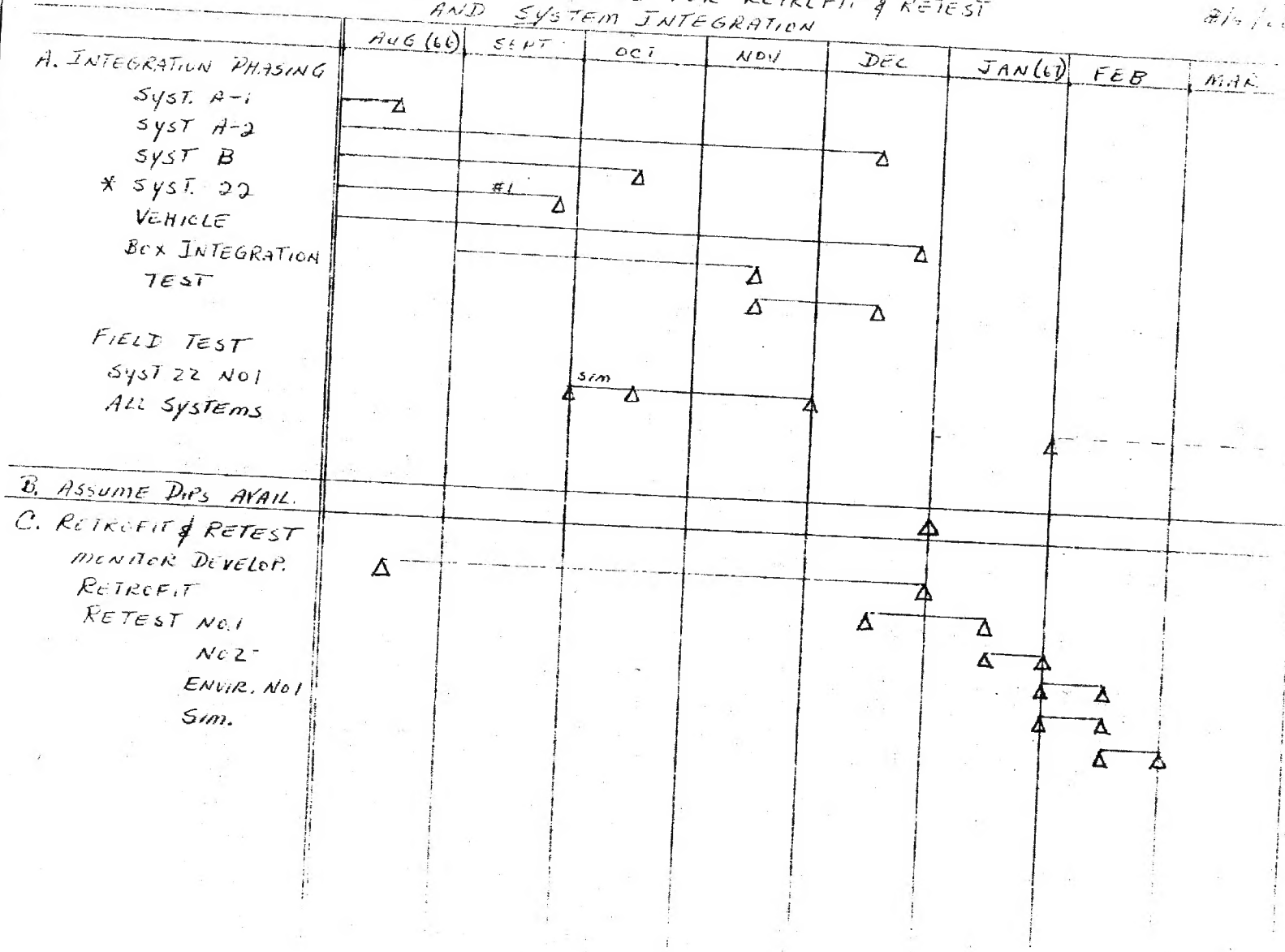
10 units  
 SH 2792 x 16 = \$4709  
 HH 520 x 9.25 = 4810  
 \$49510

5-22 SeMEDoLE

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AND SYSTEM INTEGRATION

2/4/66



REVISIONS TO STATEMENT OF WORK  
W 80C RETROFIT PROGRAM

STAT The comments listed below represent changes and additions to the proposed "Statement of Work W-80C Retrofit Program," called enclosure (2) in [ ] letter to [ ] (Doc. #188-0) dated 19 January 1967.

STAT

During [ ] visit to Aerojet General on 7 February 1967, the revisions to the statement of work were coordinated with [ ] of Aerojet. The revisions were approved by [ ] and he stated that [ ] should include them in the final statement of work.

STAT

STAT  
STATAT

The "signed off" specification for the W-80C should also be included as part of the statement of work.

A. Page 1, I, Introduction (line 4)

Add:

"... and maintainability, in accordance with the provisions of the document "Specification for Passive IR Warning Device (W-80C)" approved on 10 January 1967 by the contractor."

B. Page 2, II, Work Items, paragraph 1(b)

Change to Read:

b) "Manufacture sufficient for two (2) W-80C units plus operational spares in a minimum quantity of 10 modules.

C. Page 2, paragraph 2

Add:

d) Servo subsystem



D. Page 3, paragraph 5

Change to Read:

". . . thermoelectric coolers capable of assuring compliance with paragraph 3.1.7. and paragraph 3.5. of the document "Specification for Passive IR Warning Device (W-80C)."

E. Page 3, paragraph 6

Add:

- d) Elevation scan
- e) Cryogenic subsystem

F. Page 4, paragraph 12

Add:

12. Software items (quantity in accordance with "Specification for Passive IR Warning Device (W-80C)". Appendix B) as follows:

G. Page 4, Paragraph 12

In subparagraphs "e", "f", "g", "h", "i", and "k", delete the document quantities.

H. Page 5 (new paragraph)

Add:

13. Determination of Probability of Detection and Detection Range:  
Probability of detection and determination of detection range shall be determined by testing of the W-80C at the customer's simulation facility. Parameters specified in paragraphs 3.2., 3.3., 3.4., 3.5., and 3.6.4. of the document "Specification for Passive IR Warning Device (W-80C)" shall be used.